PTOSINGRACE CS:
Approved for use through differences. CRIR 1982 F-022 F-

| | Incher this Perservices' Recliction Act of 1988, the persons are no | guared to respond to a collection of information and earliers it company a social CSV9 append expender. | |
|-------------------------------|---|---|--|
| Rubsidiste for form 1449AIPTO | Complete if Nnown | | |
| INFORMATION DISCLOSURE | Application Number | 10/723,518 | |
| STATEMENT BY APPLICANT | Filing Date | November 25, 2003 | |
| | First Named Inventor | ROTH, Richard B. | |
| | Group Art Unit | 1634 | |
| | Examiner Name | SITTON, Jehanne S. | |
| Sheet 1 of 2 | Attorney Docket No: SEQ-4068-UT | | |

| | US PATENT DOCUMENTS | | | | | | |
|---------------------|--------------------------|---------------------|------------------|--|--|--|--|
| Examiner Initials * | Cite No. ¹ | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines,Where Relevant Passages or Relevant Figures Appear | | |
| /JS/ | A1. | 2005-0192239A1 | 09/01/2005 | Roth et al. | | | |
| /JS/ | A2. | 2005-0272043A1 | 12/08/2005 | Roth et al | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|---------------------|------------------|---|--|----------------|
| Examiner Initials* | Cite No,' | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines, Where Relevant Passages or Relevant Figures Appear | τ ^γ |
| /JS/ | A3. | WO 06062716 | 06/16/2006 | Hoh | | |
| ماد | A4. | WO 06096561 | 09/14/2006 | Haines et al | | |
| V | A5. | WO 06096737 | 09/14/2006 | Farrer and Edwards | | |

| ~ | | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | · · · · · · · · · · · · · · · · · · · |
|-----------------------|--------------|---|---------------------------------------|
| Examiner Initials* | Cite No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published, | 174 |
| /JS/ | A6. | Edwards et al., "Complement Factor H Polymorphism and Age-Related Macular Degeneration," Science 308:421-424, April 15, 2005 | |
| | A7. | GeneCard for DPF3, Available online at www.genecard.com, p. 1-24 | |
| /JS/ | A8. | Hacker et al., "Lack of association between an interleukin-1 receptor antagonist gene polymorphism and ulcerative colitis." GUT, 1997, Vol. 40, pages 623-627 | |
| | A9. | Hageman et al., "A common haplotype in the complement regulatory gene factor H (HF1/CFH) predisposes individuals to age-related macular degeneration," PNAS May 17, 2005, 102(20):7227-7232 | |
| | A10. | Haines et al., "Complement Factor H Variant Increases the Risk of Age-Related Macular Degeneration," Science 308:419-421, April 15, 2005 | |
| | A11. | Hara et al., "Hepatocyte Nuclear Factor-4a P2 Promoter Haplotypes Are Associated with Type 2 Diabetes in the Japanese Population," Diabetes 55:1260- 1264, May 2006 | |
| | A12. | Hegele et al., "SNP judgments and freedom of association.", Arterioscler Tromb Vasc Biol, 2002;33:1058-1061 | |
| ····· | A13. | Hoyal et al., "Genetic polymorphisms in DPF3 associated with risk of breast cancer and lymph node metastases," J. Carcinogenisis, 2005, Vol., 4:13:1-9 | |
| | A14. | Klein et al., "Complement Factor H Polymorphism in Age-Related Macular Degeneration," Science 308:385-389, April 15, 2005 | |
| | A15. | Kroese et al., "Genetic tests and their evaluation; can we answer the key questions?" Genetics in Medicine, vol 6 (2004), p. 475-480 | |
| V | A16. | Lin and Liu, "Linkage and association analyses of microsatellites and single-nucleotide polymorphisms in nuclear families," BMC Genetics, 6:S25:1-5 December 30, 2005 | |

EXAMINER /Jehanne Sitton/ DATE CONSIDERED 11/15/2007

PTO/SBN84K4-CD;
Approved for use through 6/7/31(5006, CMR 6001-0001)
Approved for use through 6/7/31(5006, CMR 6001-0001)
Approved for use through 6/7/31(5000)

| Substitute for form 1449AIPTO | The better the Pagement Stells of an Indian are required to respect this infection of information where it contains a wind CASP weared involve. PTO Complete if Endown | | | | | |
|-------------------------------|---|--------------------|--|--|--|--|
| INFORMATION DISCLOSURE | Application Number | 10/723,518 | | | | |
| STATEMENT BY APPLICANT | Filing Date | November 25, 2003 | | | | |
| | First Named Inventor | ROTH, Richard B. | | | | |
| | Group Art Unit | 1634 | | | | |
| | Examiner Name | SITTON, Jehanne S. | | | | |
| Sheet 2 of 2 | Attorney Docket No: SEQ-4068-UT | | | | | |

| | OTH | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | |
|-----------------------|--------------|---|---|
| Examiner Initials* | Cite No ' | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Ť |
| /JS/ | A17. | Malhotra et al; "Pharmacogenetics of Psychotropic Drug Response," Am. J. Of Psychiatry, vol. 161, pages 780-796, May 2004 | |
| /JS/ | A18. | Mummidi et al., "Evolution of human and non-human primate CC chemokine receptor 5 gene and mRNA. Potential roles for haplotype and mRNA diversity, differential haplotype-specific transcriptional activity, and altered transcription factor binding to polymorphic nucleotides in the pathogenesis of HIV-1 and simian immunodeficiency virus", J Biol. Chem. 2000, Jun 23; 275(25):18946-18961 | |
| /JS/ | A19. | Pennisi, "A Closer Look at SNPs Suggests Difficulties," Science, 1998; 281 (5384):1787-1789 | |
| /JS/ | A20. | refSNP for rs1990440, available online at www.ncbi.nlm.nih.gov , pages 1-4 | |
| /JS/ | A21. | Thisted et al; "What is a P-Value?," 1998, from the internet at galston.uchigo.edu/~thisted/ pages 1-6 | |
| /JS/ | A22. | Vazza et al., "Genome-Wide scan supports the existence of a susceptibility locus for schizophrenia and bipolar disorder on chromosome 15q26," Molecular Psychiatry 12, 87-93. 2007 | |
| /JS/ | A23. | Xiao-Lin et al., "A novel nuclear-encoded mitochondrial poly(A) polymerase PAPD1 is a potential candidate gene for the extreme obesity related phenotypes in mammals," Int. J. Biol. Sci. 2006 2(4):171-178 | |
| /JS/ | A24. | Zareparsi et al., "Strong Association of the Y402H Variant in Complement Factor H at 1q32 with Susceptibility to Age-Related Macular Degeneration," Am. J. Hum. Genet. 77:149-153, 2005 | |

| | /Jehanne Sitton/ | | |
|----------|------------------|-----------------|------------|
| EXAMINER | /Jenanne Sillon/ | DATE CONSIDERED | 11/15/2007 |

PTO/SB/08A(08-03)
Approved for use through 07/31/2006, OMB 0651-0031
US Parent & Tradement Office: U.S. DEPARTMENT OF COMMERCE

| Substitute for form 1449A/PTO | Complete If Known | required to respond to a collection of information unless it contains a valid QMB control number | |
|--|---------------------------------|--|--|
| INFORMATION DISCLOSURE | Application Number | 10/723,518 | |
| STATEMENT BY APPLICANT (Use as many sheets as necessary) | Filing Date | November 25, 2003 | |
| , | First Named Inventor | ROTH, Richard B. | |
| | Group Art Unit | 1634 | |
| | Examiner Name | SITTON, Jehanne S. | |
| Sheet 1 of 1 | Attorney Docket No: SEQ-4068-UT | | |

| F | A | LICE D | D. LIY. W. D. A. | All Parks | D 0 1 1: 147 D 1 |
|------------------------|--------------------------|---------------------|------------------|--|---|
| Examiner Initials * | Cite No. ¹ | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines,Where Relevant Passages or Relevant Figures Appear |
| /JS/ | A1. | | | | |
| | | 5,482,954 | 1/9/1996 | Kohn et al. | |
| /JS/ | A2. | | | | |
| 1001 | | 6,130,058 | 10/10/2000 | Le Bourdelles, et al. | |

| | FOREIGN PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|---------------------|------------------|---|--|----------------|--|
| Examiner Initials* | Cite No. ¹ | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines, Where Relevant Passages or Relevant Figures Appear | T ² | |
| /JS/ | A3. | WO 1990/00607 | 1/25/1990 | Wong et al. | | | |
| /JS/ | A4. | WO 1999/33962 | 7/8/1999 | Reinhard et al. | | | |

| | | OTHE | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | |
|-----------------------|--|--------------|---|----|
| Examiner Initials* | | Cite No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| 7, | IS/ | A5. | Hart et al., J.Biol.Chem. 269:62-65, (1994) | |
| | | A6. | Hashida T et al. Endocrinology 143(7):2808-11 (July 2002). | |
| | | A7. | Helene et al., Ann N Y Acad Sci., Oct. 28, 1992, Vol. 660, pp.27-36 | |
| | | A8. | Helene, Anticancer Drugs Des., 1991, V. 6, No. 6, pp. 569-584 | |
| 1 | A9. Maher, Bioessays., Dec 1992, Vol. 14, No.12, pp. 807-815 | | | |
| | V | A10. | Suzuki et al., J. Biol. Chem. 262:611-616, (1987) | |

11/15/2007

PTC/SB/08A(08-03) Approved for use through 07/31/2005, CMB 0651-0031

| | Under the Paperwork Reduction Act of 1995, no persons are i | required to respond to a collection of information unless if contains a valid OMB control number. | |
|---|---|---|--|
| Substitute for form 1449APTO | Complete if Known | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | Application Number | 10/723,518 | |
| | Filing Date | November 25, 2003 | |
| | First Named Inventor | ROTH, Richard B. | |
| | Group Art Unit | 1634 | |
| | Examiner Name | SITTON, Jehanne S. | |
| Sheet 1 of 1 | Attorney Docket No: SEQ-4068-UT | | |

| | US PATENT DOCUMENTS | | | | | | |
|------------------------|--------------------------|---------------------|------------------|--|---|--|--|
| Examiner Initials * | Cite No. ¹ | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines,Where Relevant Passages or Relevant Figures Appear | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | |
|-----------------------|--------------------------|---------------------|------------------|---|--|----|--|--|
| Examiner Initials* | Cite No. ¹ | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T² | | |

| | OTH | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | | |
|---|-----|---|--|--|
| Examiner Initials* Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published. | | | | |
| /JS/ | A1. | Cantor & Smith, Genomics: The Science and Technology Behind the Human Genome Project, 1999, John Wiley & Sons, Inc., New York, pages 164-167, 170-173, 180-181 and 190-193. | | |
| /JS/ | A2. | Cantor & Nelson, "Haplotyping in biomedicine – practical challenges," Nature Biotech 23: 21-22 (2005). | | |

| Substitute for form 1449A/PTO | Complete if Known | required to respond to a collection of information unless it contains a valid OMB control number. |
|--|----------------------|---|
| INFORMATION DISCLOSURE | Application Number | 10/723,518 |
| STATEMENT BY APPLICANT (Use as many sheets as necessary) | Filing Date | November 25, 2003 |
| | First Named Inventor | ROTH, Richard B. |
| | Group Art Unit | 1634 |
| · | Examiner Name | SITTON, Jehanne S. |
| Sheet 1 of 1 | Attorney Docket No: | SEQ-4068-UT |

| | US PATENT DOCUMENTS | | | | | | |
|------------------------|--------------------------|---------------------|------------------|--|---|--|--|
| Examiner Initials * | Cite No. ¹ | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines,Where Relevant Passages or Relevant Figures Appear | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | |
|-----------------------|--------------------------|---------------------|------------------|---|--|----|--|--|
| Examiner Initials* | Cite No.¹ | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines, Where Relevant Passages or Relevant Figures Appear | T² | | |

| | OTH | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | |
|-----------------------|--------------|---|----|
| Examiner Initials* | Cite No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| /JS/ | A1. | Supplementary European Search Report, September 29, 2006 | |
| | A2. | Kristensen, et al., "Genetic variants of CYP19 (aromatase) and breast cancer risk," Oncogene, Vol. 19, No 10, pp. 1329-1333, (March 2, 2000) | |
| \/ | A3. | Park, et al., "Polymorphisms of tumor necrosis factors A and B in breast cancer" European Journal of Immunogenetics, Vol. 29, No. 1, pp.7-10 Feb. 1, 2002 | |
| V | A4. | NCBI SNP database, Accession # rs1799969 | |

Substitute for form 1449AIPTO INFORMATION DISCLOSURE **Application Number** 10/723,518 STATEMENT BY APPLICANT Filing Date November 25, 2003 Use as many cheets as necessary) First Named Inventor ROTH, Richard B. **Group Art Unit** 1634 **Examiner Name** SITTON, Jehanne S. Attorney Docket No: SEQ-4068-UT Sheet 1 of 1

| | US PATENT DOCUMENTS | | | | | | | |
|------------------------|---------------------|---------------------|------------------|--|--|--|--|--|
| Examiner initials * | Cite No.1 | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages,Columns,Lines,Where Relevant Passages or Relevant Figures Appear | | | |
| /JS/ | A1. | 2002/142464 A1 | 10/3/2002 | Glucksman | | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | |
|-----------------------|--------------------------|---------------------|------------------|---|--|----|--|--|
| Examiner initials* | Cite No. | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Τ² | | |
| /JS/ | A2. | WO 02/053018 | 7/11/2002 | Genomics Collaborative Inc. | | | | |
| /.IS/ | A3. | VVO 04/047514 | 6/10/2004 | Sequenom Inc. | | | | |

| | ОТНІ | ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS | *********** |
|--|------|---|-------------|
| Examiner Cite Include name of the author (in CAPITAL LETTERS), thile of the article (when appropriate), thie Initials* No (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(city and/or country where published. | | | |
| /JS/ | A4. | Database SNP Accession No. rs484315 | |
| /JS/ | A5. | Li Zhong You et al. "Genomic structure of the human beta-PIX gene and its alteration in gastric cancer." Cancer Letters, March 28, 2002 pp. 203-208 | |
| /JS/ | A6. | Supplementary European Search Report for EP04753723 completed August 10, 2007 | |